

Dolphin Transcranial Doppler

Taking TCD Technology One Step Further

DOLPHINMAX

Battery Operated TCD System

DOLPHIN4D

Standalone TCD System

DOLPHINIQ

TCD Module



Discover the Most Advanced Bilateral TCD Robot in The Market




DOLPHINXF
TCD Robot

Everything You Expect from a State-of-the-Art TCD System and Much More...

- ✓ Slim design, lightweight and battery operated
- ✓ Scroll back in time and save Doppler spectrums from different depths along the Ultrasound beam.
- ✓ View a suspected emboli travelling along the blood vessel
- ✓ Operate the Dolphin with a single operation button
- ✓ Receive immediate statistical database information
- ✓ Send reports and automatic worksheets to EMR and PACS
- ✓ And much more!

Experience
the Power
of the Dolphin

Clinical Applications & Specialty Tests

Routine Cerebral Examinations

Stroke Management
Vasospasm and SAH
Arteriovenous Malformation
Intracranial Stenosis
Collateral Capacity

Specialty Tests

VMR / Autoregulation
Breath Holding Test
Patent Foramen Ovale (PFO)
Sickle Cell Disease
Brain Death Diagnosis
Evoked Flow

Continuous Examinations

Cerebral Monitoring
Emboli Detection
Endarterectomy
Evaluation of ICP changes
Intraoperative Doppler
Intraoperative TCD Monitoring

Discover the *Dolphin/XF*

The most advanced and unique bilateral TCD Robot in the market!

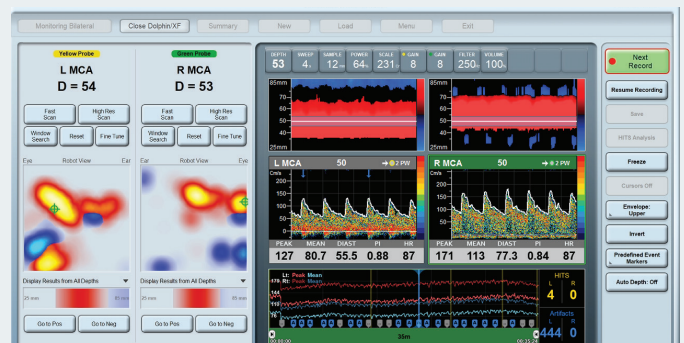


The ***Dolphin/XF*** TCD Robot Quickly scans the cerebral circulation and automatically assists in identifying blood flow velocities on the right and left sides of the brain. Using the ***Dolphin/XF*** is fast, simple and stable. Ideal for monitoring in the ICU, OR, and TCD lab, and for a range of specialty tests such as PFO or VMR tests.

Dolphin/XF Selected Features:

- ✓ Comfortable Fabric Headset
- ✓ Automatic Bilateral Scan
- ✓ Auto Search along the Ultrasound Beam
- ✓ Position Memory and Maximum Position Accuracy
- ✓ Scan Across all Depths
- ✓ "Heat Maps" Identifying Cerebral Vessels
- ✓ Simple and Intuitive User Interface
- ✓ Disposable Headset
- ✓ Fast Scan Option in just a few Seconds
- ✓ Fully Compatible with all Dolphin TCD models

Robotic Bilateral Scan



Range of Accessories



Monitoring Headset



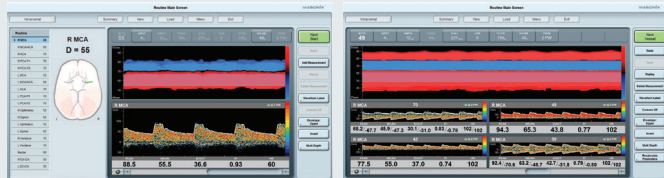
External Channels
Connection Box



Wireless / Wired
Remote Control



Foot Switch

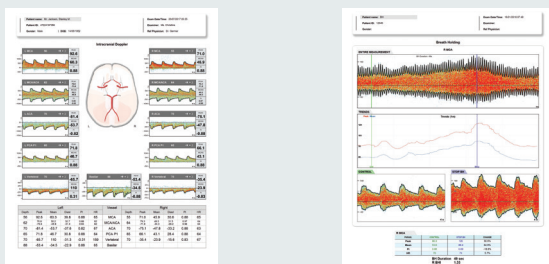
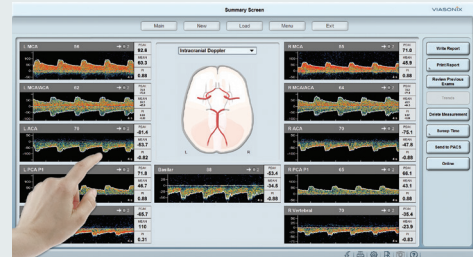


Highly Advanced Doppler Processing

- ✓ Spectrum, M Mode & Sound replay at any depth!
- ✓ Complete Raw Data for post processing
- ✓ Multi Depth support
- ✓ Velocity Profile diagnosis

User Friendly Interface

- ✓ One Key Operation
- ✓ Designed for Touch Screen
- ✓ Unlimited Flexible Protocols
- ✓ Configurable Display
- ✓ Dynamic Reporting
- ✓ Language support

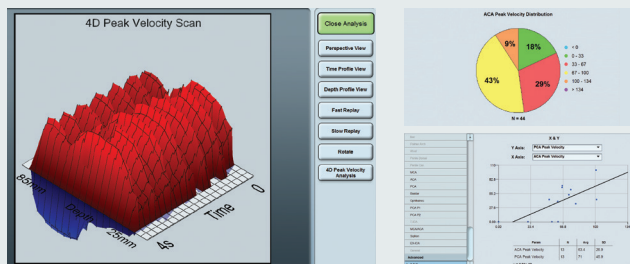
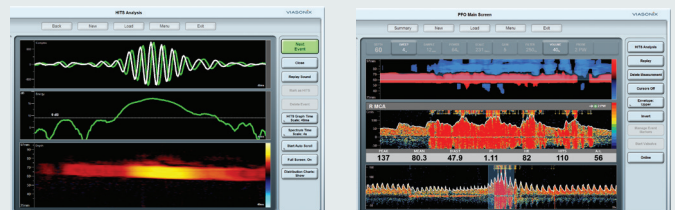


Complete Network Solution

- ✓ EMR & PACS Connectivity
- ✓ DICOM Worklist and Storage
- ✓ Programmable Structured Report
- ✓ HL7 Interface
- ✓ GDT Connectivity
- ✓ Unlimited Review Stations

Advanced HITS Detection

- ✓ Fast and thorough review of all HITS
- ✓ High resolution HITS M-Mode display
- ✓ Distribution charts
- ✓ Complex & Energy graphs



Research Oriented

- ✓ Variety of export formats including Raw Data
- ✓ 4D velocity scan
- ✓ Built in statistics tool
- ✓ Informative charts and comparisons
- ✓ Data mining

About Us

Viasonix is the only international company that offers a wide range of advanced Peripheral Vascular and Transcranial Doppler (TCD) product lines. The company's state-of-the-art products meet common day-to-day routine clinical practice, as well as set new industry standards.

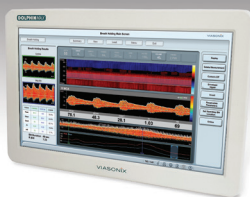


Range of Doppler Probes



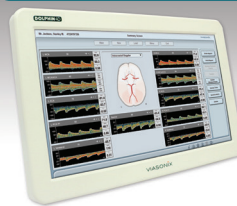
Dolphin Specifications

DOLPHINMAX



**The Next Generation
Battery Operated TCD System**

DOLPHIN4D



**The Ultimate TCD
Standalone System**

DOLPHINIQ



**The Ideal Cost-Effective
TCD Module**

Dimensions

47x30x7 cm

Weight

6 kg

Computer

Integrated

Battery

Internal Rechargeable

47x30x7 cm

6 kg

Integrated

No

27x21x5.5 cm

2 kg

External

No

General

Power: 110-220 V, 50-60 Hz

Dolphin/MAX Battery Operation Time: Up to 6 hours

Doppler Frequencies: 2 MHz, 1.6 MHz, 4 MHz, 8 MHz

Intraoperative: 16 MHz (Not for USA & Canada)

Probe Connectors: 5

Operating System: Windows 7/8/10/11 (32 or 64 bit)

Unilateral/Bilateral: Supported

CW/PW Probes: Supported

FFT Size Options: 64/128/256/512

Probe Holder: Integrated

Controls: Wired/Wireless remote control, Touch screen, Foot switch, Keyboard, Mouse

Dolphin/MAX and Dolphin/4D Integrated Computer

Screen: 18" Wide Screen LED with capacitive Multi Touch screen

VESA mount: Built in

Operating System: Windows 10 Enterprise, 64 Bit

CPU/RAM: Quad Core 2 GHz, 8 GB

Hard Drive: 1 TB or higher Enterprise Grade SSD with power loss protection

USB Connection: x4, USB 3.0

Network: Ethernet

Speakers: Integrated

Dolphin/IQ Recommended Computer

Screen: 21"-24" Wide Screen with Touch Screen

CPU/RAM: i3/i5/i7, 4 GB or higher

Hard Drive: 1 TB or higher

Doppler Processing

Technology: Fully digital, 8000 channels for each side

M Mode: Dynamic up to 500 gates for selected depth range

Auto-Depth: Supported

Multi-Depth: Up to 8 spectrum depths

Replay: Spectrum, M Mode and Doppler audio at any depth

Raw Data Post Processing: Depth, Gain, Scale, Sample, Filter

Specialty Tests: Breath Holding, VMR, PFO, Sickle Cell, Vasospasm, Cognitive Response

Save: Automatic or Manual

HITS Detection: Simultaneous in multiple depths

HITS M-Mode display: 125 μ s resolution

HITS Analysis Screen: with detailed events, distribution charts, complex & energy graphs

Continuous Monitoring: Trends display including zoom in/out

Event Markers: Automatic, Predefined, Alerts, Delta-mean

Software Features

Screen Display: Designed for wide screen and High Definition

Cybersecurity: According to FDA Guidelines

HIPAA: Patient privacy options

Protocols: Unlimited, fully configurable

Main Screen Layout: Fully configurable, interactive

Summary Screens: Interactive

User Profile Settings: Unlimited, user configurable

Designed Reports: Fully configurable

Free Text Report: Templates, tables, camera & pictures, TAGS

Waveform Labels: Manual and automatic with threshold display

Backup/Restore: Integrated. USB/DVD/Network, Manual/Automatic

Patient Details: Flexible layout

Medical History: Configurable, with indication fields

Storage: Configurable options, compressed data files

Camera: USB camera support

Maintenance: Automated protocol with detailed report

Languages: Supported

Connectivity

External Channels: Analog/Digital Input/Output (8/8)

Capnograph: Supported

Review Stations: Unlimited, including over network

Shared Database: Over network

DICOM Worklist: Offline and Online

DICOM Store: BMP/JPG/PDF, multiple destinations

DICOM Features: Auto-send, auto-retry (queue)

DICOM Structured Report: Default/Programmable

HL7: Orders, Report, Query, Patient Registration

GDT: Patients and Report

PDF: Automatic Report Export

Email: With PDF attachment, using SMTP

Network Queue: Send reports while network is offline

Research Options

Export: PDF, BMP, JPG, PNG, Excel, VDL, Movie, Word, RTF, Raw Data, Anonymous PDF

Statistics: Advanced charts, Comparison graphs, X-Y Analysis

Advanced Display: Velocity Profile, Depth Scan, 4D Analysis

Data Mining: Available with advanced segments

Patient History: Quick review of previous exams, patient trends screen

Database Search: Multiple advanced options

Selected Approvals

ISO 13485, CE 0344, FDA K202742

Additional country-specific approvals